



Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 × 10 = 10]

- (i) Find the number of vertices in a graph with 15 edges if each vertex has degree 2.
- (ii) Determine whether the sequence $\{x_n\}$, where

$$x_n = \frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \frac{1}{3 \cdot 4} + \dots + \frac{1}{n(n+1)}$$
 converges or not.
- (iii) Is the function $f(x, y) = \begin{cases} \frac{xy}{xy+x-y}, & (x, y) \neq (0,0) \\ 0, & (x, y) = (0,0) \end{cases}$ continuous at (1,2)?
- (iv) Evaluate: $\int_0^{\pi/2} \int_0^2 r \, dr \, d\theta$
- (v) Write the general solution of the differential equation $p = \cos(y - xp)$, where $p = \frac{dy}{dx}$.
- (vi) Is the function $f(x, y) = \begin{cases} x^2 + y^2 + xy, & (x, y) \neq (2,3) \\ 10, & (x, y) = (2,3) \end{cases}$ continuous at (0,0) ?
- (vii) Determine whether the series $\sum_{n=1}^{\infty} \frac{1}{n^2+n+1}$ converges or not.
- (viii) Find the degree of the homogeneous function

$$f(x, y) = \frac{\sqrt{x} + \sqrt{y}}{\sqrt{x} - \sqrt{y}}$$
- (ix) Find the value of $\iint dx dy$ over the first quadrant of the circle having centre at the origin and radius 4 c.m.
- (x) Evaluate: $\frac{1}{(D-2)(D-3)} e^{2x}$
- (xi) If a graph has 5 vertices and 7 edges then write the size of its adjacency matrix.
- (xii) Give an example of a bounded sequence which is not convergent.

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 × 3 = 15]

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Lei Huang



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Table of Contents Mathematics Bsmt 301 A Theory Sauratra University

1. Understanding the eBook Mathematics Bsmt 301 A Theory Sauratra University
 - The Rise of Digital Reading Mathematics Bsmt 301 A Theory Sauratra University
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Bsmt 301 A Theory Sauratra University
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Bsmt 301 A Theory Sauratra University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Bsmt 301 A Theory Sauratra University
 - Personalized Recommendations
 - Mathematics Bsmt 301 A Theory Sauratra University User Reviews and Ratings
 - Mathematics Bsmt 301 A Theory Sauratra University and Bestseller Lists
5. Accessing Mathematics Bsmt 301 A Theory Sauratra University Free and Paid eBooks

- Mathematics Bsmt 301 A Theory Sauratra University Public Domain eBooks
 - Mathematics Bsmt 301 A Theory Sauratra University eBook Subscription Services
 - Mathematics Bsmt 301 A Theory Sauratra University Budget-Friendly Options
6. Navigating Mathematics Bsmt 301 A Theory Sauratra University eBook Formats
- ePub, PDF, MOBI, and More
 - Mathematics Bsmt 301 A Theory Sauratra University Compatibility with Devices
 - Mathematics Bsmt 301 A Theory Sauratra University Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics Bsmt 301 A Theory Sauratra University
 - Highlighting and Note-Taking Mathematics Bsmt 301 A Theory Sauratra University
 - Interactive Elements Mathematics Bsmt 301 A Theory Sauratra University
8. Staying Engaged with Mathematics Bsmt 301 A Theory Sauratra University
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Bsmt 301 A Theory Sauratra University
9. Balancing eBooks and Physical Books Mathematics Bsmt 301 A Theory Sauratra University
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Bsmt 301 A Theory Sauratra University
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Bsmt 301 A Theory Sauratra University
- Setting Reading Goals Mathematics Bsmt 301 A Theory Sauratra University
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Bsmt 301 A Theory Sauratra University
- Fact-Checking eBook Content of Mathematics Bsmt 301 A Theory Sauratra University
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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